speedrite™
BY TRU-TEST

NOTHING BUT SERIOUS POWER!

ELECTRIC FENCE SYSTEMS

www.speedrite.com

As a pioneer in electric fencing, Speedrite has carved an international reputation for performance and durability.

With a reputation forged by 80 years of electric fencing experience, Speedrite remains the brand that farmers trust.

NO NONSEN
ELECTRIC FENC
SOLUTIONS FOR
SERIOUS FARM

Since 1938, Speedrite has manufactured proven electric fencing products that have weathered the test of time in some of the harshest farming conditions. The Speedrite name stands for leading innovation, reliability and action. Speedrite is NOTHING BUT SERIOUS POWER!

At Speedrite we are serious about control both on the farm and in our factory. If you are serious about controlling valuable livestock, step up to the brand with a global reputation for getting the job done.

ABOUT TRU-TEST GROUP

You will find Tru-Test Group brands in 70 countries worldwide. For more than a century products from Tru-Test Group have been well and truly tested by people on the land. The result is products and services uniquely attuned to farmers, and livestock producers needs wherever they may be in the world. For more information on Tru-Test Group and our brands visit www.tru-test.com.

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NEED MORE HELP?

*Visit **www.speedrite.com** for more information about our range, contact details and Speedrite stockists. Alternatively, refer to the back page for details of your local Tru-Test Group office.*

ENERGIZERS

You can rely on Speedrite to deliver maximum power. We are proud to hold the world record for the most powerful energizer ever manufactured – the 63000R.*

Speedrite energizers are the result of decades of intense research and development. Our energizer range features unique technologies which gives them a market leading edge. Speedrite is the promise of power in action!

**As at NOV 2011*

Choosing your Energizer

Speedrite offers a range of energizers to suit the way you manage your farm.

Mains Range

A mains powered energizer is the most cost-effective, reliable way to power a permanent electric fence. Unigizers™ are also compatible with mains power.

Powers from 200 – 630 km (275 – 850 acres) of fence

Mains energizers see pg 7
Unigizers see pg 10

Unigizer™ Range

A Unigizer is a flexible, all-in-one mains and battery energizer with solar compatibility. It is a versatile solution that works across permanent, semi-permanent and temporary fencing.

Powers from 5 – 150 km (8 – 225 acres) of fence

Unigizers see pg 10

Battery Range

Convenient, portable and quick to set up, battery units are suitable for temporary, strip grazing and semi-permanent fencing. Unigizers are also compatible with battery power.

Powers from 1 – 25 km (up to 40 acres) of fence

Battery energizers see pg 15
Unigizers see pg 10

Solar Range

Ideal for isolated areas where no mains power is available. Suitable for strip grazing, permanent, semi-permanent and temporary fencing. Our Solar Kits provide remote power for permanent installations. Our Portable Solar energizers are an all-in-one solution with built-in solar panel and battery. The Unigizer range is also solar compatible.

Powers from 2 – 150 km (up to 225 acres) of fence

Solar battery energizers see pg 17
Solar kits and panels see pg 19
Portable solar energizers see pg 22
Unigizers see pg 10

EASY TO FOLLOW PACKAGING

Here's what to look for when you are in-store:

KM / MILES:
The maximum length of fence the energizer will power

ACRES / HA:
An approximate indication of the area that the energizer will electrify

OUTPUT ENERGY (JOULES):
Maximum amount of energy (joules) that will travel from the energizer to the fence line

STORED ENERGY (JOULES):
Maximum amount of energy (joules) that is stored by the energizer

COMPARING ENERGIZERS

When evaluating energizers, be sure to compare them on the same basis. It is best to compare energizers by looking at the ***Maximum Output Energy (joules).***

	What distance (area) do you want the energizer to power?	How will you power your fence?	Recommended energizer	Page	Stored Energy (joules)	Maximum Output Energy (joules)
LARGE	**Up to 630 km** 850+ acres (350 ha)	Mains	63000RS† / 63000R†	Pg 9	97 J	63 J
	Up to 360 km 500 acres (200 ha)	Mains	36000RS† / 36000R†	Pg 9	54 J	36 J
	Up to 200 km 275 acres (110 ha)	Mains	20000R†	Pg 9	34 J	22 J
MEDIUM	**Up to 150 km** 225 acres (90 ha)	Mains / Battery / Solar	15000i*	Pg 13	20 J	15 J
	Up to 120 km 180 acres (70 ha)	Mains / Battery / Solar	12000i†	Pg 13	16 J	12 J
	Up to 60 km 90 acres (30 ha)	Mains / Battery / Solar	6000i / 6000†	Pg 13	9 J	6 J
SMALL	**Up to 30 km** 45 acres (18 ha)	Mains / Battery / Solar	3000	Pg 14	4.5 J	3 J
	Up to 20 km 30 acres (16 ha)	Mains / Battery / Solar	2000	Pg 14	2.7 J	2 J
	Up to 10 km 15 acres (6 ha)	Mains / Battery / Solar	1000	Pg 14	1.4 J	1 J
	Up to 10 km	Battery / Solar	S500	Pg 24	0.63 J	0.5 J
	Up to 5 km 8 acres (3 ha)	Mains / Battery / Solar	500†	Pg 14	0.7 J	0.5 J
	Up to 4 km	Battery	SG320†	Pg 17	0.4 J	0.33 J
	Up to 3 km	Battery	SG220†	Pg 18	0.29 J	0.23 J
	Up to 2 km	Battery	SG160†	Pg 18	0.22 J	0.17 J
	Up to 2 km	Battery / Solar	S150	Pg 24	0.2 J	0.15 J
	Up to 2 km	Battery / Solar	AN90	Pg 17	0.16 J	0.12 J
	Up to 1 km	Battery	AN20	Pg 17	0.05 J	0.04 J

** = Europe only † = Available in selected markets*

NOTE: *Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit* ***www.speedrite.com/resources.*** *Select* ***Brochures*** *then* ***Speedrite Fencing Manual.***

MAINS ENERGIZERS

Speedrite mains powered energizers are high performing, powerful units designed for extensive electric fence systems.

MAINS ENERGIZERS FEATURES EXPLAINED:

2 YEAR WARRANTY
We stand behind the reliability of our products. Visit **www.speedrite.com** for full warranty details.

LOAD RESPONSE FEATURE
Controls energizer output to match conditions, providing maximum fence voltage for effective stock control.

LOW INTERFERENCE
Cyclic Wave™ technology delivers outstanding fence performance and helps to minimise electromagnetic interference in line with international EMC standards.

LARGE TERMINALS
Mounted on the front of the energizer casing for convenience, these large terminals are easily adjusted and accept up to two fence wires. The slotted terminals make inserting wires and getting a good connection easy.

RUGGED, COMPACT DESIGN
Hi-tech components and advanced research and development have enabled us to make powerful energizers in a rugged, compact, polymer case.

CYCLIC WAVE™ TECHNOLOGY
Provides a cleaner, more powerful pulse, maximising the energy that travels down the fence for optimal stock control.

BI-POLAR TECHNOLOGY
Enables the user to power a fence system to perform exceptionally well in dry, low conductive soil.

REMOTE CAPABLE
Using a Speedrite fence remote (with remote capable Speedrite energizers) enables you to switch the energizer on or off from anywhere along the fence line. This makes it easy to manage repairs and maintenance.

INDICATOR LIGHTS (VOLTAGE)
Easy to read light bar display provides an instant measure of the energizer output voltage for quick fence diagnostics. The LED display shows red when heavily loaded.

COMPARING MAINS

For mains powered Unigizer™ specifications see Comparing Unigizers table on pg 12.

	63000RS / 63000R	36000RS / 36000R	20000R
DISTANCE/AREA YOU WANT THE ENERGIZER TO POWER	630 km 850 acres 350 ha	360 km 500 acres 200 ha	200 km 275 acres 110 ha
MAXIMUM OUTPUT ENERGY	63.0 J	36.0 J	22.0 J
MAXIMUM STORED ENERGY	97.0 J	54.0 J	34.0 J
NO LOAD VOLTAGE	9,500 V	9,300 V 7,600 V Europe	9,500 V 7,300 V Europe
MEDIUM LOAD VOLTAGE @ 500 Ω	8,500 V	8,600 V 6,700 V Europe	8,800 V 6,600 V Europe
HEAVY LOAD VOLTAGE @ 100 Ω	9,600 V	8,100 V 6,800 V Europe	6,000 V 6,000 V Europe
MINIMUM NUMBER OF EARTH RODS	10	8	8
INPUT VOLTAGE	220 - 240 V	100 - 240 V	100 - 240 V

63000RS / 63000R

63000RS *Remote with Fault Finder included*
63000R *Remote capable (Remote sold separately ST102)*

MOST POWERFUL ENERGIZER IN THE WORLD*

Powers up to 630 km *(850+ acres / 350 ha) of fence*
63 J maximum output energy *(97 J stored energy)*

- *Cyclic Wave™ technology*
- *Bi-polar technology*
- *Remote capable*
- *Indicator lights (voltage)*
- *Rugged, compact design*
- *Large terminals*
- *Low interference*
- *Load response feature*
- *Half voltage terminal*
- *2 year warranty.*

**AS AT NOV 2011*

36000RS / 36000R

36000RS *Remote with Fault Finder included*
36000R *Remote capable (Remote sold separately ST102)*

Powers up to 360 km *(500 acres / 200 ha) of fence*
36 J maximum output energy *(54 J stored energy)*

- *Cyclic Wave™ technology*
- *Bi-polar technology*
- *Remote capable*
- *Indicator lights (voltage)*
- *Rugged, compact design*
- *Large terminals*
- *Low interference*
- *Half voltage terminal*
- *2 year warranty.*

20000R

20000R *Remote capable (Remote sold separately ST102)*

Powers up to 200 km *(275 acres / 110 ha) of fence*
22 J maximum output energy *(34 J stored energy)*

- *Cyclic Wave™ technology*
- *Bi-polar technology*
- *Remote capable*
- *Indicator lights (voltage)*
- *Rugged, compact design*
- *Large terminals*
- *Low interference*
- *Half voltage terminal*
- *2 year warranty.*

Speedrite Unigizers give you a versatile 3-in-1 solution to manage your electric fence system.

You have the flexibility to choose from either mains, battery or solar energy to power your electric fence.

The 3-in-1 capability allows the Unigizer to be used for temporary, semi-permanent, permanent and strip grazing fence systems. It's never been easier to create an electric fencing solution.

UNIGIZERS™

UNIGIZERS™ FEATURES EXPLAINED:

2 YEAR WARRANTY

*We stand behind the reliability of our products. Visit **www.speedrite.com** for full warranty details.*

VERSATILE POWER OPTIONS

Can be conveniently installed in a range of locations using either mains, battery or solar power.

VERSATILE MOUNTING OPTIONS

Can be mounted on a wall, post or fence wire. Choose indoor or outdoor installation, depending on your fence location and power supply.

CYCLIC WAVE™ TECHNOLOGY

Provides a cleaner, more powerful pulse, maximising the energy that travels down the fence for optimal stock control.

BI-POLAR TECHNOLOGY

Enables the user to power a fence system to perform exceptionally well in dry, low conductive soil.

SOLAR COMPATIBLE

Electrify your fence with solar power by connecting solar panels to any Speedrite Unigizer. The solar panels charge the battery connected to the Unigizer, for reliable livestock control.

EARTH MONITORING

Indicates earth system problems by monitoring the level of voltage around the earth system.

LOW INTERFERENCE

Cyclic Wave™ technology delivers outstanding fence performance and helps to minimise electromagnetic interference in line with international EMC standards.

LARGE TERMINALS

Mounted on the front of the energizer casing for convenience, these large terminals are easily adjusted and accept up to two fence wires. The slotted terminals make inserting wires and getting a good connection easy.

DAY/NIGHT SENSOR

Automatically adjusts pulse speed to contain or exclude animals based on day or night conditions.

BATTERY SAVER

Microprocessor technology automatically adjusts the output energy depending on the battery condition. This feature extends battery life and is particularly efficient when used in solar installations.

INDICATOR LIGHTS (VOLTAGE & BATTERY)

Easy to read light bar display provides an instant measure of the energizer output voltage for quick fence diagnostics. The LED display shows red when heavily loaded.

LCD VOLTAGE DISPLAY

Displays output voltage, battery voltage and earth voltage. LCD is backlit for viewing in poor light conditions. On selected models only.

REMOTE CAPABLE

Using a Speedrite fence remote (with remote capable Speedrite energizers) enables you to switch the energizer on or off from anywhere along the fence line. This makes it easy to manage repairs and maintenance.

COMPARING UNIGIZERS™

	15000i*	12000i†	6000i 6000†	3000	2000	1000	500†
DISTANCE/AREA YOU WANT THE ENERGIZER TO POWER	150 km 225 acres 90 ha	120 km 180 acres 70 ha	60 km 90 acres 36 ha	30 km 45 acres 18 ha	20 km 30 acres 12 ha	10 km 15 acres 6 ha	5 km 8 acres 3 ha
MAXIMUM OUTPUT ENERGY	15.0 J	12.0 J	6.0 J	3.0 J	2.0 J	1.0 J	0.5 J
MAXIMUM STORED ENERGY	20.0 J	16.0 J	9.0 J	4.5 J	2.7 J	1.4 J	0.7 J
NO LOAD VOLTAGE	9,800 V	9,100 V	9,500 V	11,400 V	11,000 V	9,800 V	8,300 V
MEDIUM LOAD VOLTAGE @ 500 Ω	7,500 V	7,700 V	6,700 V	6,200 V	5,900 V	5,300 V	4,400 V
MINIMUM NUMBER OF EARTH RODS	6	6	4	3	3	2	1
INPUT VOLTAGE	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V	12 V / 100 - 240 V

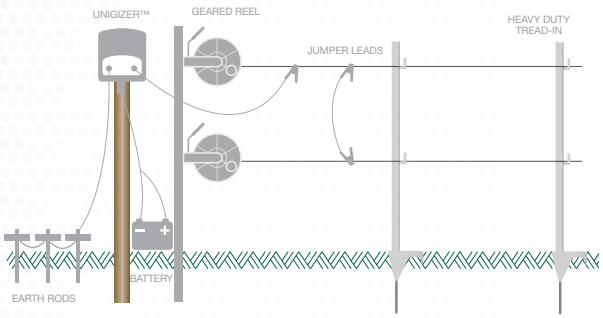
* = Europe only † = Available in selected markets

NOTE: Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit **www.speedrite.com/resources.** Select **Brochures** then **Speedrite Fencing Manual.**

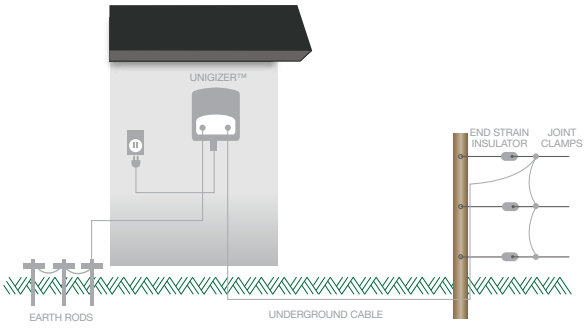
UNIGIZER MOUNTING EXAMPLES

Sample diagrams showing Unigizer and earth system. The number of earth rods will vary, depending on the Unigizer and soil conditions.

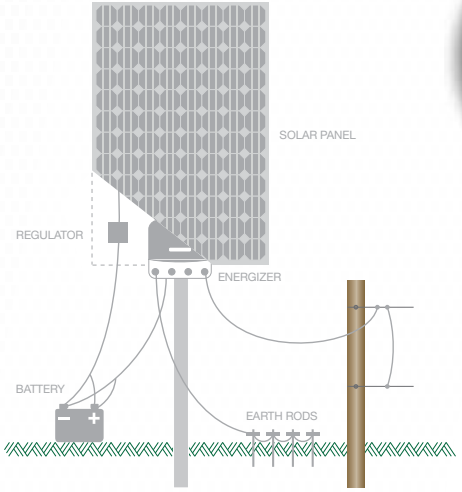
OUTDOORS WITH 12 V BATTERY



INDOOR DRY LOCATIONS WITH MAINS POWER ADAPTOR



OUTDOORS WITH 12 V BATTERY AND UNIGIZER SOLAR KIT



LAUNCHING JUNE 2012

18000i

18 J maximum output energy

Contact your local Tru-Test Group Area Sales Manager or Speedrite retailer/distributor for details. Available in selected markets.

15000i

Powers up to 150 km *(225 acres / 90 ha) of fence*
15 J maximum output energy *(20 J stored energy)*

- *Cyclic Wave™ technology*
- *Solar compatible*
- *Remote capable (remote sold separately ST102)*
- *LCD Voltage Display*
- *Indicator lights (voltage & battery)*
- *Battery saver*
- *Day/Night sensor*
- *Large terminals*
- *Low Interference*
- *Earth monitoring*
- *Versatile mounting & power options*
- *Time delay*
- *Audible & visual alarm*
- *Low energy terminal*
- *Adjustable settings & pulse speeds*
- *2 year warranty.*

Includes battery lead & mains power adaptor.

Available in Europe only.

12000i

Powers up to 120 km *(180 acres / 70 ha) of fence*
12 J maximum output energy *(16 J stored energy)*

- *Cyclic Wave™ technology*
- *Bi-polar technology*
- *Solar compatible*
- *Remote capable (remote sold separately ST102)*
- *LCD Voltage Display*
- *Indicator lights (voltage & battery)*
- *Battery saver*
- *Day/Night sensor*
- *Large terminals*
- *Low Interference*
- *Earth monitoring*
- *Versatile mounting & power options*
- *Half voltage terminal*
- *Adjustable settings & pulse speeds*
- *2 year warranty.*

Includes battery lead & mains power adaptor.

Available in selected markets.

6000i

Powers up to 60 km *(90 acres / 36 ha) of fence*
6 J maximum output energy *(9 J stored energy)*

- *Cyclic Wave™ technology*
- *Bi-polar technology*
- *Solar compatible*
- *Remote capable (remote sold separately ST102)*
- *LCD Voltage Display*
- *Indicator lights (voltage & battery)*
- *Battery saver*
- *Day/Night sensor*
- *Large terminals*
- *Low Interference*
- *Earth monitoring*
- *Versatile mounting & power options*
- *Half voltage terminal*
- *Adjustable settings & pulse speeds*
- *2 year warranty.*

Includes battery lead & mains power adaptor.

6000

Powers up to 60 km *(90 acres / 36 ha) of fence*
6 J maximum output energy *(9 J stored energy)*

- *Cyclic Wave™ technology*
- *Bi-polar technology*
- *Solar compatible*
- *Indicator lights (voltage & battery)*
- *Battery saver*
- *Day/Night sensor*
- *Large terminals*
- *Versatile mounting & power options*
- *Half voltage terminal*
- *Adjustable settings & pulse speeds*
- *2 year warranty.*

Includes battery lead & mains power adaptor.

Available in selected markets.

3000

Powers up to 30 km *(45 acres / 18 ha) of fence*
3 J maximum output energy *(4.5 J stored energy)*

- *Solar compatible*
- *Indicator lights (voltage & battery)*
- *Day/Night sensor*
- *Large terminals*
- *Versatile mounting & power options*
- *Adjustable settings & pulse speeds*
- *2 year warranty.*

Includes battery lead & mains power adaptor.

2000

Powers up to 20 km *(30 acres / 12 ha) of fence*
2 J maximum output energy *(2.7 J stored energy)*

- *Solar compatible*
- *Indicator lights (voltage & battery)*
- *Day/Night sensor*
- *Large terminals*
- *Versatile mounting & power options*
- *Adjustable settings & pulse speeds*
- *2 year warranty.*

Includes battery lead & mains power adaptor.

1000

Powers up to 10 km *(15 acres / 6 ha) of fence*
1 J maximum output energy *(1.4 J stored energy)*

- *Solar compatible*
- *Indicator lights (voltage & battery)*
- *Day/Night sensor*
- *Large terminals*
- *Versatile mounting & power options*
- *Adjustable settings & pulse speeds*
- *2 year warranty.*

Includes battery lead & mains power adaptor.

500

Powers up to 5 km *(8 acres / 3 ha) of fence*
0.5 J maximum output energy *(0.7 J stored energy)*

- *Solar compatible*
- *Indicator light (pulse)*
- *Large terminals*
- *Versatile mounting & power options*
- *2 year warranty.*

Includes mains power adaptor.

Available in selected markets.

In some markets switch position may vary. Unigizers may include half and full power settings.

BATTERY ENERGIZERS

Speedrite battery energizers provide a portable and practical solution for strip grazing and large or small electric fence systems.

COMPARING BATTERY ENERGIZERS

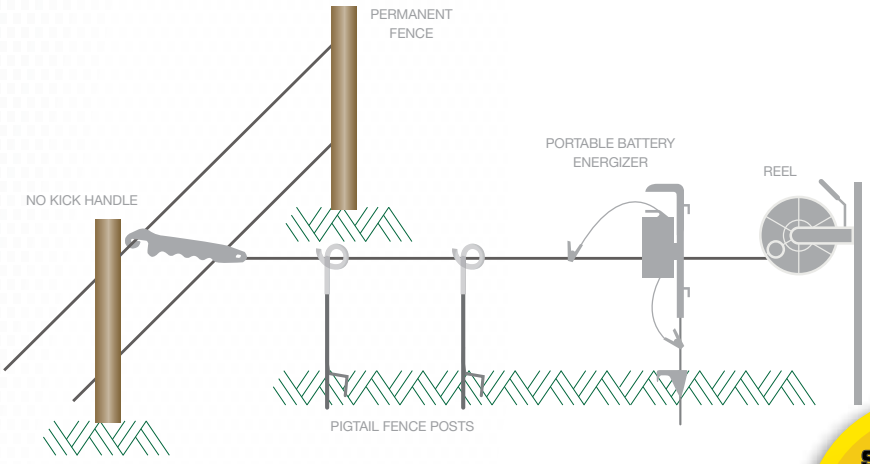
For battery powered Unigizer™ specifications see Comparing Unigizers table on pg 12.

	STRIP GRAZING ENERGIZERS		CARRY BOX ENERGIZERS		
	AN90	**AN20**	**SG320†**	**SG220†**	**SG160†**
DISTANCE/AREA YOU WANT THE ENERGIZER TO POWER	2 km	1 km	4 km	3 km	2 km
MAXIMUM OUTPUT ENERGY	0.12 J	0.04 J	0.33 J	0.23 J	0.17 J
MAXIMUM STORED ENERGY	0.16 J	0.05 J	0.43 J	0.29 J	0.22 J
NO LOAD VOLTAGE	8,000 V	5, 800 V	8, 700 V	8, 700 V	8, 400 V
LIGHT LOAD VOLTAGE @ 2000 Ω	4,500 V	2,800 V	5,900 V	5,600 V	5, 300 V
STANDARD LOAD VOLTAGE @ 1000 Ω	–	–	4, 400 V	4, 200 V	3, 900 V
MEDIUM LOAD VOLTAGE @ 500 Ω	-	-	-	-	-
MINIMUM NUMBER OF EARTH RODS	1	1	1	1	1
BATTERY TYPE (SOLD SEPARATELY)	4 x D batteries or 12 V or 6 V external battery	2 x D batteries	9 V internal or 12 V external battery	9 V internal or 12 V external battery	9 V internal or 12 V external battery

† = Available in selected markets

NOTE: *Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit* ***www.speedrite.com/resources.*** *Select* ***Brochures*** *then* ***Speedrite Fencing Manual.***

PORTABLE BATTERY ENERGIZER MOUNTING EXAMPLE



Solar panel runs energizer during the day & extends battery life

AN90 WITH STAND

AN90

POWERFUL AND VERSATILE STRIP GRAZING UNIT.

Powers up to 2 km *of fence*
0.12 J maximum output energy *(0.16 J stored energy)*

Simple set up
On/Off switch
Fast & slow options
Optional tread-in stand
Flashing LED
2 year warranty.

AN90 with solar*

EXTEND THE LIFE OF YOUR BATTERIES.

Powers up to 2 km *of fence*
0.12 J maximum output energy *(0.16 J stored energy)*

Simple set up
On/Off switch
Fast & slow options
Optional tread-in stand
Flashing LED
2 year warranty.

**Solar panel runs energizer during the day & extends battery life.*

AN20

Powers up to 1 km *of fence*
0.04 J maximum output energy *(0.05 J stored energy)*

Simple set up
On/Off switch
Intelligent battery management to extend battery life
2 year warranty.

SG320

Powers up to 4 km *of fence*
0.33 J maximum output energy *(0.4 J stored energy)*

*Dual power supply options**
Adjustable pulse speed
Day/Night sensor
6 position rotary switch
3 stage light bar
Durable weather & UV resistant case
2 year warranty.

Includes earth stand & fence lead set.

**Uses 9 V or 12 V internal battery or 12 V external battery (sold separately).*

Available in selected markets.

SG220

Powers up to 3 km *of fence*
0.23 J maximum output energy *(0.29 J stored energy)*

- *Day/Night sensor*
- *Dual power supply options**
- *Adjustable pulse speed*
- *6 position rotary switch*
- *3 stage light bar*
- *Durable weather & UV resistant case.*
- *2 year warranty.*

Includes earth stand & fence lead set.

**Uses 9 V or 12 V internal battery or 12 V external battery (sold separately).*

Available in selected markets.

SG160

Powers up to 2 km *of fence*
0.17 J maximum output energy *(0.22 J stored energy)*

- *Dual power supply options**
- *Pulse light indicator*
- *On/Off switch*
- *Durable weather & UV resistant case.*
- *2 year warranty.*

Includes earth stand & fence lead set.

**Uses 9 V or 12 V internal battery or 12 V external battery (sold separately).*

Available in selected markets.

SOLAR KITS & PANELS

Speedrite offers a range of solar energizer kits and solar components for solar compatible energizers.

SOLAR KITS AND PANELS EXPLAINED

Innovations in technology mean solar installations are now a practical and cost effective method of powering areas where mains power is either unavailable or impractical.

Speedrite solar panels and energizers feature high-tech materials and are engineered to rigorous quality standards. This means you can trust Speedrite to transfer energy with minimal loss. The end result is less battery drain while maintaining higher fence voltage.

Contact your local Tru-Test Group Area Sales Manager or Speedrite retailer/distributor for advice and warranty information. You'll find their details online at ***www.speedrite.com****. Alternatively, refer to the back cover for details of your local Tru-Test Group office.*

UNIGIZER™ SOLAR KITS

*Unigizers™ are a unique 3-in-1 solution and are particularly useful for solar installations. Choose from any Unigizer in the Speedrite range to pair with appropriate solar panels for your Unigizer Solar Kit. For more information on our Unigizer range and specifications see page 12. Kit includes: Unigizer, Solar Panel(s) and Mounting Kit. Batteries not included.***

SOLAR KIT - 15000i*	**Powers up to 150 km** *(225 acres / 90 ha) of fence* **15 J maximum output energy** *(20 J stored energy)*
SOLAR KIT - 12000i†	**Powers up to 120 km** *(180 acres / 70 ha) of fence* **12 J maximum output energy** *(16 J stored energy)*
SOLAR KIT - 6000i	**Powers up to 60 km** *(90 acres / 36 ha) of fence* **6 J maximum output energy** *(9 J stored energy)*
SOLAR KIT - 6000†	**Powers up to 60 km** *(90 acres / 36 ha) of fence* **6 J maximum output energy** *(9 J stored energy)*
SOLAR KIT - 3000	**Powers up to 30 km** *(45 acres / 18 ha) of fence* **3 J maximum output energy** *(4.5 J stored energy)*
SOLAR KIT - 2000	**Powers up to 20 km** *(30 acres / 12 ha) of fence* **2 J maximum output energy** *(2.7 J stored energy)*
SOLAR KIT - 1000	**Powers up to 10 km** *(15 acres / 6 ha) of fence* **1 J maximum output energy** *(1.4 J stored energy)*

** = Europe only † = Available in selected markets*

*** = Speedrite recommends the use of 12 V deep cycle batteries. Requirements and availability of solar panels vary between different countries. Panels 40 W and above come with regulators to prevent over-charging. In Australia 10–80 W panels are regulated.*

SOLAR PANEL & MOUNTING KIT OPTIONS

Solar Panels and Mounting Kits can be purchased separately to allow for repairs or upgrades to existing installations. Available in selected markets. Mounting kits may vary between markets.

	PANEL & MOUNTING KIT†
10 watt	✓
20 watt	✓
30 watt	✓
40 watt	✓
50 watt	✓
65 watt	✓
80 watt	✓

PORTABLE SOLAR ENERGIZERS

Speedrite portable solar energizers incorporate an internal battery and are perfect for strip grazing or powering a small area. These self contained energizers feature an integrated solar panel and a sophisticated battery management system in a rugged carry case.

2 YEAR WARRANTY*

We stand behind the reliability of our products. Visit **www.speedrite.com** for full warranty details.

STEEL AND WOOD POST MOUNTING OPTIONS

High impact enclosure is designed to securely mount on Y-posts and wood posts.

REQUIRES MINIMAL SUNLIGHT

Energizer requires minimal sunlight hours to keep battery at or near full charge. When fully charged selected portable energizers can operate for up to 21 days without sunlight.

PORTABLE SOLAR ENERGIZER FEATURES EXPLAINED:

RECHARGEABLE INTERNAL BATTERY

Rechargeable internal sealed 12 V, 7 Ah battery included (optional in some markets). Maximum battery life is 3+ years.

INDICATOR LIGHT

Located on the rear of energizer, indicates the solar energizer is operating.

BATTERY RECHARGE

Energizer intelligently manages battery recharging during fine weather.

BATTERY SAVER

Microprocessor technology automatically adjusts the output energy depending on the battery condition. This feature is designed to extend battery life.

HIGH OUTPUT VOLTAGE

9,500 V output.

RUGGED DESIGN

Strong aluminium solar panel frame and UV resistant case provides maximum weather protection for extreme environments.

*Excludes battery.
Batteries fitted inside energizers have a 90 day warranty.

COMPARING PORTABLE SOLAR ENERGIZERS

	S500	S150
DISTANCE/AREA YOU WANT THE ENERGIZER TO POWER	10 km 8 acres 3 ha	2 km 3 acres 1.2 ha
MAXIMUM OUTPUT ENERGY	0.50 J	0.15 J
MAXIMUM STORED ENERGY	0.63 J	0.20 J
NO LOAD VOLTAGE	9,500 V	9,500 V
LIGHT LOAD VOLTAGE @ 2,000 Ω	7,400 V	5,300 V
STANDARD LOAD VOLTAGE @ 1,000 Ω	6,100 V	3,700 V
MINIMUM NUMBER OF EARTH RODS	1	1
BATTERY TYPE	12 V internal battery	12 V internal battery

NOTE: *Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence. For installation instructions visit* ***www.speedrite.com/resources.*** *Select* ***Brochures*** *then* ***Speedrite Fencing Manual.***

S500

Powers up to 10 km *(8 acres / 3 ha) of fence*
0.50 J maximum output energy *(0.63 J stored energy)*

- *Requires minimal sunlight*
- *Indicator light (pulse)*
- *Battery saver*
- *Rugged design*
- *High output voltage*
- *Battery recharge*
- *Rechargeable internal battery*
- *Steel and wood post mounting options*
- *On/Off switch*
- *2 year warranty.*

S150

Powers up to 2 km *(3 acres / 1.2 ha) of fence*
0.15 J maximum output energy *(0.2 J stored energy)*

- *Requires minimal sunlight*
- *Indicator light (pulse)*
- *Battery saver*
- *Rugged design*
- *High output voltage*
- *Battery recharge*
- *Rechargeable internal battery*
- *Steel and wood post mounting options*
- *On/Off switch*
- *2 year warranty.*

MANAGEMENT TOOLS

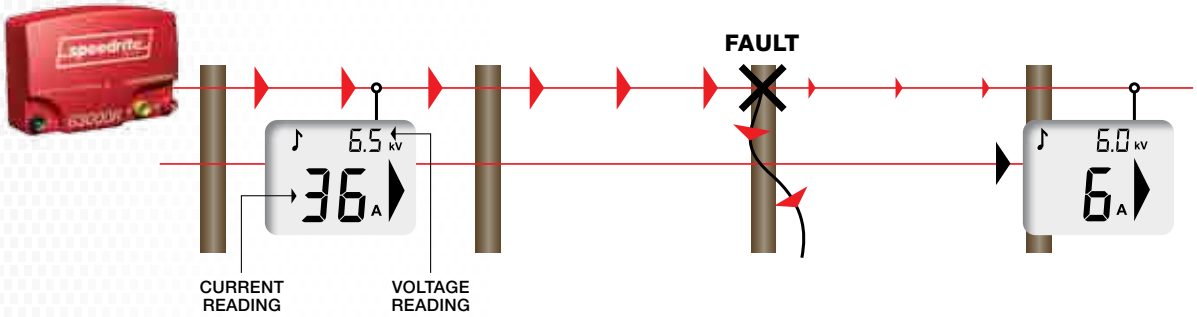
To get the maximum performance from an energizer you need to be able to measure and monitor your fence system effectively.

No matter how good an energizer is, if the fence line is badly insulated, has shorts, or is poorly earthed, it will perform well below it's optimum. Advances in remote and fault-finding technology mean you can quickly locate and fix faults on your fence with a minimum of fuss.

FAULT FINDING EXPLAINED

HOW TO USE

Start near the energizer's lead-out wires with your Speedrite Remote with Fault Finder or your Speedrite Fault Finder. Move down the fence line following the arrow away from the energizer. Take readings at regular intervals and at any junction point.



The previous current reading is shown briefly in the top right corner of the screen so that you can compare readings. If the current reading suddenly falls, you have gone past a fault. Retrace your steps to find the fault. Note that after a few seconds the previous current reading will be replaced with the present voltage reading (kV).

Remote with Fault Finder

- *Quickly & easily locates faults along the fence line*
- *Large back-lit display*
- *Displays current, voltage & current direction simultaneously*
- *Displays previous current reading to compare values*
- *Audible current indicator*
- *Convenient belt clip*
- *Insulated, rugged, water resistant case*
- *Replaceable 9 V battery*
- *Low battery warning system*
- *Automatic energizer polarity detection*
- *Fault Finding option can be used with all energizers*
- *Turns compatible Speedrite energizer on or off from anywhere along the fence line*
- *1 year warranty.**

ST102 **EA**

Fault Finder

- *Quickly & easily locates faults along the fence line*
- *Large back-lit display*
- *Displays current, voltage & current direction simultaneously*
- *Displays previous current reading to compare values*
- *Audible current indicator*
- *Convenient belt clip*
- *Insulated, rugged, water resistant case*
- *Replaceable 9 V battery*
- *Low battery warning system*
- *Automatic energizer polarity detection*
- *Can be used with all energizers*
- *1 year warranty.**

ST100 **EA**

Digital Voltmeter

- *Enables accurate testing of fence & energizer earth system*
- *Earth probe provides accurate fence to ground voltage measurements*
- *Readings from 200 V to 9,900 V in 100 V increments*
- *Rugged design*
- *Automatic On/Off*
- *Replaceable 9 V battery with a life of up to 18 months*
- *1 year warranty.**

Available in selected markets.

806215 **EA**

Lite Tester

- *Handy, pocket-sized unit for testing general fence condition*
- *Shows if fence is live & measures approximate voltage*
- *Readings from 2,000 V to 6,000 V in 1000 V increments*
- *Easy to read voltage markings*
- *No battery required*
- *1 year warranty.*

ST020 **EA**

Fence Alert

- *Warning light begins flashing when voltage is too low*
- *Visible up to 1.5 km away*
- *Rugged impact & water resistant case*
- *Can be used on any type of electric fence including steel wire and portable poli products*
- *Works with all energizers*
- *No ground wires or external power sources required*
- *Battery life 5 years on standby or up to 2 weeks of continuous flashing*
- *Two preset voltage triggers can be selected*
- *Replaceable CR2032 lithium button cell battery*
- *1 year warranty.**

ST0303 **EA**

*Excludes battery. Batteries fitted inside management tools have a 90 day warranty.

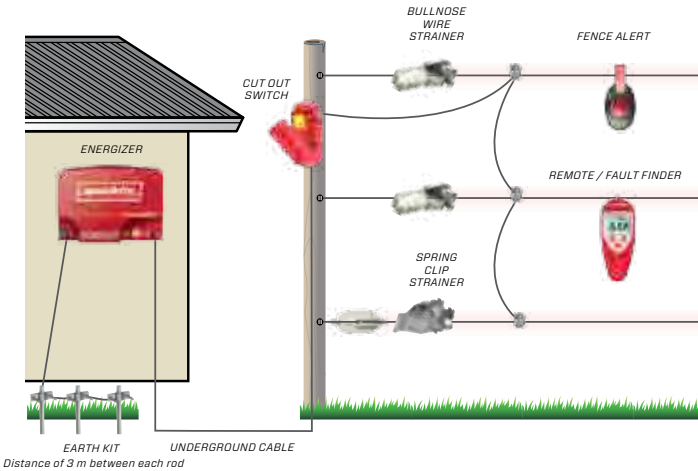
PERMANENT ELECTRIC FENC

A flexible, durable and economical fencing solution. Easy to install and operate with less maintenance.

It is also a safer fencing solution for your stock. Animal contact with the fence is reduced and it's less likely to injure should a fence be breached.

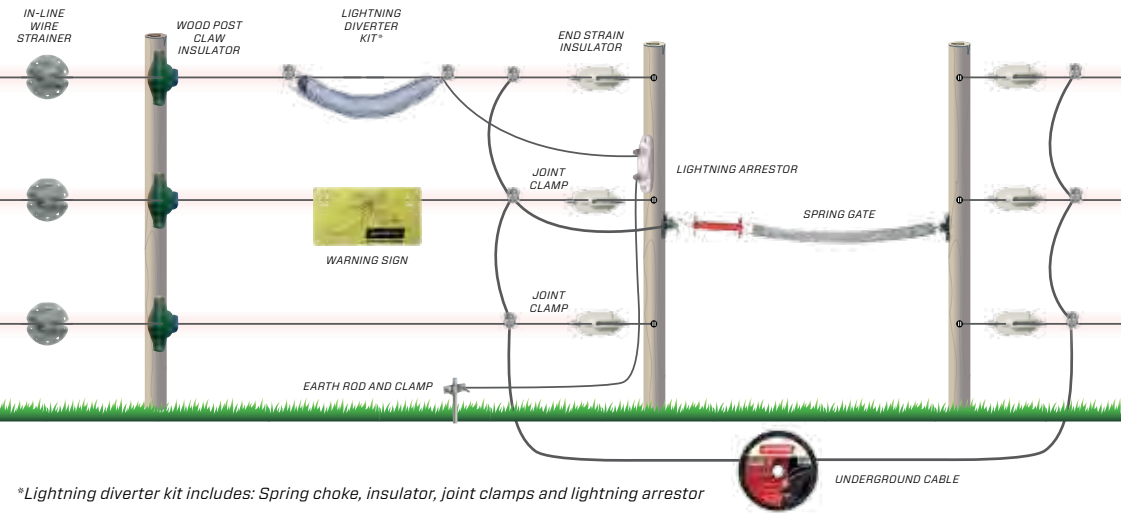
Permanent Electric Fence System

Speedrite has a range of equine products for use in permanent electric fencing. Look for the horse logo to identify the Speedrite equine range.



CING

*These products are recommended to ensure top performance of your permanent electric fence system. Diagram is an example only. For more details on permanent electric fencing design visit **www.speedrite.com/resources**. Select **Brochures** then **Speedrite Fencing Manual**.*



**Lightning diverter kit includes: Spring choke, insulator, joint clamps and lightning arrestor*

PERMANENT ELECTRIC FENCE SYSTEM CHECKLIST

TICK HERE	DO YOU HAVE:
☐	Mains, Unigizer™ or battery powered energizer
☐	Earth kit
☐	Cut-out switches
☐	Fence alert(s)
☐	Remote/Fault Finder
☐	Wire strainers
☐	Post insulators
☐	Lightning diverter kit*
☐	Warning sign(s)
☐	Joint clamps
☐	End strain insulators
☐	Underground cable
☐	Gate hardware

Insulators

Speedrite insulators are reliable, strong and UV stabilised for long life.
All Speedrite insulators come with a 10 year warranty.

WOOD POST INSULATORS

Wood Post Claw Insulator

- *Rugged claw design*
- *UV stabilised for long life*
- *Unique staple guides*
- *Twin spark guards prevent arcing & increased distance from wire to post reduces risk of leakage*
- *Suitable for up to 4 mm (8 ga) wire, Poliwire or braid.*

SI0292	***Black PK 25***
SI0292SP	***Black PK 125***
808556	***Black CT 6000***
SI129	***Blue CT 200***

Heavy Duty Wood Post Claw Insulator

- *Rugged claw design*
- *UV stabilised for long life*
- *Unique staple guides*
- *Twin spark guards prevent arcing & increased distance from wire to post reduces risk of leakage*
- *Suitable for up to 4 mm (8 ga) wire, Poliwire or braid.*

Available in selected markets.

807890	***Black PK 25***

Wood Post Claw Ribbed Insulator

- *Rugged claw design*
- *UV stabilised for long life*
- *Unique staple guides*
- *Twin spark guards prevent arcing & increased distance from wire to post reduces risk of leakage*
- *Suitable for up to 4 mm (8 ga) wire, Poliwire or braid.*

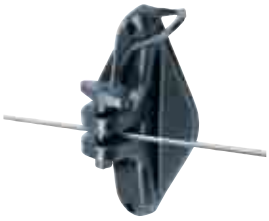
Available in selected markets.

SI0291	***Black PK 25***

Wood Post Pinlock Insulator

- *Rugged pinlock design*
- *UV stabilised for long life*
- *Increased distance from wire to post prevents arcing and reduces risk of leakage*
- *Suitable for up to 4 mm (8 ga) wire, Poliwire or braid*
- *High strength pinlock, conveniently allows easy removal of wires.*

SI027	***Black PK 25***
SI027SP	***Black Bonus PK 125***



Wood Post Pinlock Insulator

- *Rugged pinlock design*
- *UV stabilised for long life*
- *Increased distance from wire to post prevents arcing and reduces risk of leakage*
- *Suitable for up to 4 mm (8 ga) wire, Poliwire or braid*
- *High strength pinlock, conveniently allows easy removal of wires.*

Available in selected markets.

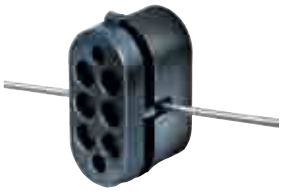
807891	***PK 25***

Wood Post Nail On Insulator

- *Ideal for smaller farms*
- *UV stabilised for long life*
- *Easy to install.*

Includes 75 mm twisted galvanised nail.

SI046	***Black PK 25***



Wood Post Hi-Strain Insulator

- *High strength insulator designed for high & low points of hill country fences*
- *UV stabilised for long life.*

Includes 2 x 75 mm twisted galvanised nails.

SI028 **Black PK 25**

Wood Post Porcelain Drive Screw Insulator

- *High quality, long life porcelain*
- *White glaze finish*
- *41 mm diameter.*

Includes drive screw assembly.

Available in selected markets.

SI012 **White PK 20**
CP012 **White Contractor PK 200**

Wood Post Screw-In Insulator

- *Galvanised steel construction for corrosion resistance*
- *UV stabilised for long life*

Available in selected markets.

807961 **Black PK 25**

Wood Post Staple Insulator

- *Ideal for smaller farms*
- *UV stabilised for long life*
- *Single piece moulding for easy application*
- *Suitable for up to 2.5 mm (12.5 ga) wire.*

Includes diamond point staple.

803728 **Black PK 50**

Wood Post Jumbo Claw Insulator

- *Use with up to 8 mm rope, braid, or electrified sighter wire*
- *UV stabilised for long life*
- *Large shield prevents arcing & increased distance from wire to post reduces risk of leakage.*

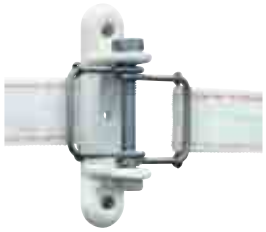
814696 **White PK 25**

Wood Post Wide Tape Insulator

- *Use with up to 40 mm wide tape, rope, braid or electrified sighter wire*
- *UV stabilised for long life*
- *Large shield prevents arcing & increased distance from tape to post reduces risk of leakage.*

814594 **White PK 25**

WOOD POST INSULATORS



Wide Tape Corner End Insulator

- *Use with up to 40 mm tape*
- *UV stabilized for long life.*

814591 **White PK 2**

Wide Tape Wood Post Anchor White

- *Use with up to 40 mm tape*
- *Can be nailed or stapled to a wood post*
- *Connecting bolt with nuts and washers for connecting to underground cable*
- *UV stabilized for long life.*

Available in selected markets.

SI092 **White PK 10**

STEEL POST INSULATORS

Heavy Duty Y-Post Pinlock Insulator

- *Rugged self locking, tapered pins for easy removal of wires.*
- *UV stabilised for long life*
- *Suitable for most sizes of fence wire*
- *Single spark shield prevents arcing & increased distance from wire to post reduces risk of leakage.*

SI025SP **Black PK 25**
809289 **Black Bonus PK 125**

Medium Duty Steel Y-Post Pinlock Insulator

- *Rugged self locking, tapered pins for easy removal of wires.*
- *UV stabilised for long life*
- *Suitable for most sizes of fence wire*
- *Single spark shield prevents arcing & increased distance from wire to post reduces risk of leakage.*

SI025 **Black PK 25**

Y-Post Pinlock Insulator

- *Rugged self locking, tapered pins for easy removal of wires*
- *UV Stabilised for long life*
- *Suitable for most sizes of fence wire*
- *Single spark shield prevents arcing & increased distance from wire to post reduces risk of leakage.*

Available in selected markets.

807892 **Black PK 25**

Y-Post Wide Tape Insulator

- *Use with up to 40 mm wide tape, rope, braid or electrified sighter wire*
- *Single spark shield prevents arcing & increased distance from wire to post reduces risk of leakage.*

819984 **White PK 25**

Post Cap Topper

- *Side & top fixing options for up to 40 mm tape, Poliwire, rope, braid or electrified sighter wire*
- *UV stabilised for long life*
- *Easily attaches to T & Y-posts.*

814704 **White PK 10**

Porcelain Bobbin Insulator

- *High quality, long life porcelain*
- *White glaze finish*
- *41 mm diameter.*

Available in selected markets.

SI014 **White PK 10**

Porcelain Bolt On Insulator

- *High quality, long life porcelain*
- *White glaze finish.*

Includes bolt on assembly.

Available in selected markets.

SI016 **White PK 20**
CP016 **CT 200**

OTHER INSULATORS

Multi-Fit Rod Post Insulator

- *Suitable for up to 4 mm (8 ga) wire or up to 7 mm rope, braid & Poliwire*
- *UV stabilised for long life*
- *Flexible design & heavy duty screw nut for a secure fit*
- *Back end slot with anti slip-out hooks holds up to 12 mm tape*
- *Spark guards prevent arcing & increased distance from wire to post reduces risk of leakage*
- *Fits rod posts 6 mm to 16 mm in diameter.*

808022 **Black PK 25**

Concrete Post Insulator

- *Suitable for up to 4 mm (8 ga) wire, Poliwire or braid*
- *UV stabilised for long life*
- *Spark guards prevent arcing & increased distance from wire to post reduces risk of leakage*

Includes galvanised steel pin.

SI0303 **Black PK 25**

INSULTUBE

Insultube

- *Economical insulator fastened with staples (staples sold separately)*

Available in selected markets.

807936 **4 mm x 12 m**
807937 **4 mm x 100 m**
807933 **6 mm x 100 m**

END STRAIN INSULATORS

End Strain Insulator White (Heavy Duty)

- *Suitable for high strain use*
- *Superior UV stabilisation for long life*
- *Deep grooves hold wire in place & prevent twisting*
- *Long leakage path prevents arcing*
- *Use with most sizes of fence wire*
- *Reinforced glass filled polymer for maximum strength.*

SI018	***White PK 25***
812842	***White PK 5***
807949	***White PK 25***

End Strain Insulator Black

- *Suitable for medium strain use*
- *UV stabilised for long life*
- *Deep grooves hold wire in place & prevent twisting*
- *Long leakage path prevents arcing*
- *Use with most sizes of fence wire.*

SI031D ***Black PK 25***

End Strain Insulator Porcelain

- *Suitable for high strain use*
- *High quality long life porcelain*
- *Deep grooves hold wire in place & prevent twisting under tension*
- *White glaze finish.*

SI023 ***White PK 10***

Strainers

All Speedrite strainers come with a 1 year warranty.

UNINSULATED STRAINER

Spring Clip Strainer

- *Suitable for high strain & in-line use*
- *Spring clip design for easy tensioning*
- *Rust resistant*
- *Rugged & easy to use*
- *Galvanised frame with aluminium spool.*

SA100-50 ***PK 10***

INSULATED STRAINERS

Porcelain Insulated Strainer

- *Suitable for high strain use*
- *Spring clip design for easy tensioning*
- *Rust resistant*
- *Rugged & easy to use*
- *Galvanised frame with aluminium spool*
- *Porcelain insulator for strength & durability.*

Available in selected markets.

SA150-50 ***White PK 10***

PORCELAIN BULLNOSE INSULATED STRAINER COMING SOON

Bullnose Insulated Strainer

- *Suitable for high strain use*
- *Spring clip design for easy tensioning*
- *Heavy duty insulator protects against arcing*
- *Rust resistant*
- *Rugged & easy to use*
- *Galvanised frame with aluminium spool*
- *UV stabilised for long life.*

814570 ***White PK 10***

INSULATED STRAINERS

White Insulated Strainer

- *Suitable for high strain use*
- *Spring clip design for easy tensioning*
- *Heavy duty insulator protects against arcing*
- *Rust resistant*
- *Galvanised frame with aluminium spool*
- *Rugged & easy to use*
- *UV stabilised for long life.*

SA200-50 ***White PK 10***

Black Insulated Strainer

- *Suitable for medium strain use*
- *Spring clip design for easy tensioning*
- *Heavy duty insulator protects against arcing*
- *Rust resistant*
- *Galvanised frame with aluminium spool*
- *Rugged & easy to use*
- *UV stabilised for long life.*

SA250-50 ***Black PK 10***

IN LINE STRAINERS

In Line Strainer

- *Suitable for high strain use*
- *Can be added to fence without cutting wire*
- *Rust resistant*
- *Rugged & easy to use*
- *Light weight high strength aluminium construction.*
- *Designed to work with In Line Strainer Handle or 12 mm drive ratchet*

813398 ***PK 25***

In Line Strainer Handle

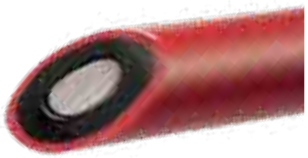
- *Galvanised handle for In Line Strainer*
- *Rust resistant*
- *Rugged & easy to use.*

RSTDSPH ***White EA***

Cable & Specialised Wire

UV stabilised for long life and extra durable. We provide a 1 year warranty on cable & specialised wire products.

CABLE



Extreme Underground Cable

- *Ideal for large properties with high powered energizers*
- *2.7 mm (12 ga) aluminium coated steel for extreme conductivity*
- *8 x more conductive than 1.6 mm underground cable*
- *Use with Speedrite Joint Clamps*
- *Resistance of 11.5 ohms / km*
- *Easy to strip with soft steel core for greater flexibility*
- *Delivers more power over long distances.*

806052	***2.7 mm x 100 m***
818290	***2.7 mm x 500 m***

Premium Underground Cable

- *Suitable for all properties*
- *2.5 mm (12.5 ga) galvanised steel for greater conductivity*
- *3 x more conductive than 1.6 mm underground cable*
- *Use with Speedrite Joint Clamps*
- *Resistance of 35 ohms / km*
- *Easy to strip with soft steel core for greater flexibility.*

806042	***2.5 mm x 25 m***
806045	***2.5 mm x 50 m***
806046	***2.5 mm x 100 m***
814625	***2.5 mm x 500 m***

Underground Cable

- *Ideal for small properties with low powered energizers*
- *1.6 mm (14 ga) galvanised steel*
- *Use with Speedrite Joint Clamps*
- *Resistance of 90 ohms / km*
- *Easy to strip with soft steel core for greater flexibility.*

806037	***1.6 mm x 25 m***
806038	***1.6 mm x 50 m***
806039	***1.6 mm x 100 m***

WIRE

Aluminium Coated Lead-out Wire

- *Ideal for long lead-out & high powered energizer insulations*
- *2.7 mm wire*
- *3 x more conductive than standard galvanised wire*
- *Resistance of 11.5 ohms / km*
- *Ideal for use in coastal and other corrosive environments.*

Available in selected markets.

814627	***2.7 mm x 1,000 m***

Electrified Sighter Wire

- *High tensile wire coated in a highly conductive carbon compound to deliver low voltage shocks*
- *Highly visible to help prevent animal entanglement.*

Available in selected markets.

817561	***White 250 m***
817559	***Black 250 m***
817479	***Black 400 m***
814766	***White 400 m***

Flexinet Sheep

- *Highly visible temporary short run fence*
- *Tough polypropylene with stainless steel conductors*
- *50 m length with pre-spaced poli-stakes*

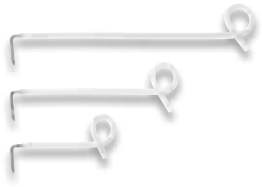
Includes anchoring kit & warning sign.

FSTFSN50	***PK 1***

Outriggers

Speedrite Outriggers are backed by a 1 year warranty. They help preserve the life of existing conventional fences. Simply attach Outriggers and run an electrified wire through them to keep stock off the fence.

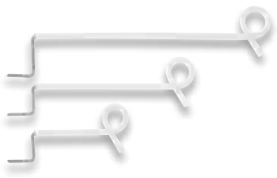
WOOD POST OUTRIGGERS



Top Fixing

- *Galvanised spring steel construction*
- *UV stabilised for long life.*

807862	*White* ***400 mm PK 5***
809598	*White* ***270 mm PK 5***
807874	*White* ***150 mm PK 5***



Side Fixing

- *Galvanised spring steel construction*
- *UV stabilised for long life.*

807863	*White* ***400 mm PK 5***
807867	*White* ***270 mm PK 5***
807873	*White* ***150 mm PK 5***

Double Ended

- *Galvanised spring steel construction*
- *UV stabilised for long life.*

807875	***Double 860 mm PK 10***

STEEL Y-POST OUTRIGGERS

Wood Post Fibreglass Outrigger with clip

- *UV stabilised, silicon bonded fibreglass post.*

Includes stainless steel spring clip.

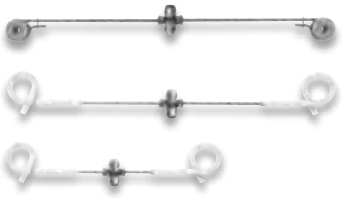
SF007	***300 mm x 10 mm PK 50***

Wood Post Screw-In Outrigger

- *200 mm wood post screw in insulator*
- *Galvanised steel construction for corrosion resistance*
- *UV stabilised for long life.*

Available in selected markets.

807942	***Screw-In 200 mm PK 25***



Double Quick-Lock™ Outrigger

- *Smart bracket design for quick and easy installation*
- *6 mm spring steel construction*
- *Zinc plated to withstand harsh conditions*
- *Porcelain versions contain a high quality long life porcelain bobbin*
- *UV stabilised for long life.*

Available in selected markets.

813217	***Porcelain Double 600 mm PK 5***
813215	***Double 600 mm PK 5***
813213	***Double 400 mm PK 5***

STEEL Y-POST OUTRIGGERS

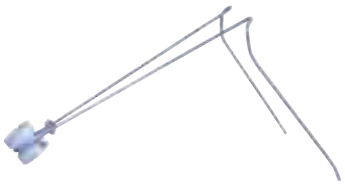
Single Quick-Lock™ Outrigger

- *Smart bracket design for quick and easy installation*
- *6 mm spring steel construction*
- *Zinc plated to withstand harsh conditions*
- *UV stabilised for long life*
- *Porcelain versions contain a high quality long life porcelain bobbin.*

Available in selected markets.

813216	***Porcelain 300 mm PK 5***
813214	***300 mm PK 5***
813212	***200 mm PK 5***

WIRE OUTRIGGERS



Porcelain Wire Curlon

- *High quality long life porcelain bobbin*
- *4 mm galvanised spring steel construction for superior strength*
- *C-Clip design provides extra insulator stability.*

Available in selected markets.

SI001	***Porcelain CT 50***

Standoff GPSO 300 mm x 5.6 mm

- *300 mm standoff suited for use on concrete posts*
- *41 mm porcelain bobbin insulator.*

Available in selected markets.

SI003	***300 mm x 5.6 mm CT 50***

Pinlock Wire Outrigger

- *Ideal for installing electric fencing onto existing non-electrified fences*
- *Constructed from high tensile galvanised steel*
- *UV stabilised pinlock insulator for easy wire insertion and removal.*

Available in selected markets.

SI060SP	***CT 50***

Wire Outrigger 300 mm

- *High quality long life porcelain bobbin*
- *3 mm galvanised spring steel construction*
- *UV stabilised pinlock insulator for easy wire insertion and removal.*

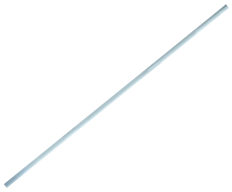
Available in selected markets.

807959	***CT 50***

Semi-Permanent Posts

All Speedrite semi-permanent posts & accessories come with a 1 year warranty.

FIBREGLASS POST



Fibreglass Post

- *UV stabilised, silicon bonded fibreglass rods*
- *Available in a range of sizes.*

*Available in selected markets.**

809058	***10 mm x 1.2 m PK 10***
809059	***10 mm x 1.5 m PK 10***
809067	***10 mm x 2.0 m PK 10***
809061	***13 mm x 1.2 m PK 10***
809068	***13 mm x 1.5 m PK 10***
809591	***13 mm x 2.0 m PK 10***
SF005	***10 mm x 1.3 m PK 50****
SF011	***10 mm x 1.5 m PK 50****
SF001	***10 mm x 2.0 m PK 50****

POST ACCESSORIES

Post Cap

- *Use with 10 mm and 13 mm fibreglass posts.*

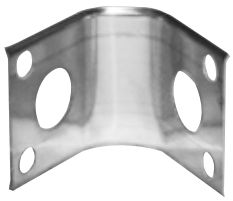
814635	***CT 50***

Temporary Clip

Fibreglass Post Clip

- *Use with 10 or 13 mm fibreglass posts.*

SF031	***10 mm Temp PK 100***
807960	***10 mm Ezi PK 200***
809635	***13 mm Ezi PK 250***



Stainless Steel U Clip

- *Suits 10 mm fibreglass rods*
- *Stainless steel construction for superior corrosion resistance*
- *Applicator tool available.*

Available in selected markets.

SK001	***PK 100***
SK011	***U Clip Applicator Tool***

Gate Hardware

All Speedrite gate products come with a 1 year warranty.

Tape Gate White

- *Electrifies gateways up to 5 m wide*
- *Versatile & easy to install*
- *Fully insulated, heavy duty handle with protective guards & non-slip grip*
- *Designed for maximum visibility with 40 mm wide tape*
- *Tape contains 10 stainless steel strands for high conductivity.*

Includes: Heavy duty insulated handle, 2 x Wood Post Pinlock Insulators, buckle, activator & 5 m of white/red tape.

SA043 **PK 1**

Tape Gate Hardware Kit

- *For custom length gateways*
- *For use with Speedrite Premium Gate Tape*
- *Versatile & easy to install*
- *Fully insulated, heavy duty handle with protective guards & non-slip grip.*

Includes: Heavy duty insulated handle, 2 x Wood Post Pinlock Insulators, buckle & activator (excludes tape).

SA039 **PK 1**

Spring Gate White

- *Electrifies gateways up to 5 m wide*
- *Versatile & easy to install*
- *Fully insulated, heavy duty handle with protective guards & non-slip grip*
- *Highly visible powder coated white rust resistant spring.*

Includes: Heavy duty insulated handle, 2 x Wood Post Pinlock Insulators, activator & 5 m white spring.

SA044W **PK 1**

HANDLES

Spring Gate

- *Electrifies gateways up to 8 m wide*
- *Versatile & easy to install*
- *Fully insulated, heavy duty handle with protective guards & non-slip grip*
- *Galvanised rust resistant spring.*

Includes: Heavy duty insulated handle, 2 x Wood Post Pinlock Insulators, activator & galvanised spring.

SA044 **5 m PK 1**
SA0448M **8 m PK 1**

Bungy Gate

- *Electrifies gateways & races up to 11 m wide*
- *Versatile & easy to install*
- *Fully insulated, handle with protective guards & non-slip grip*
- *Bungy cord with four stainless steel strands provides extreme stretch, high conductivity and maximum shock exposure.*

Includes: Insulated handle, 2 x Wood Post Pinlock Insulators, activator, galvanised hook, high visibility flag & bungy cord.

813719 **3.5 m - 7 m PK 1**
813924 **5.5 m - 11 m PK 1**

Heavy Duty Gate Break Handle

- *Non-slip insulated grip*
- *High density UV stabilised polyethylene for long life*
- *High tensile galvanised spring*
- *Heavy duty, rugged body with large protective guards.*

Available in selected markets.
807888 **Red CT 20**
819680 **Yellow CT 20**

HANDLES

OTHER GATE PRODUCTS

Economy Gate Break Handle

- *Non-slip insulated grip*
- *High density UV stabilised polyethylene for long life*
- *Replaceable heavy duty galvanised spring.*

803314 **Bonus PK 6**
SA042 **CT 20**

Compression Gate Break Handle

- *Non-slip insulated grip*
- *High density UV stabilised polyethylene for long life*
- *High tensile, heavy duty spring compresses under tension, preventing over-stretching.*

SA042C **CT 20**

Gate Activator

- *Wood Post Pinlock Insulator*
- *Activator plate for gate handle.*

SA040 **PK 10**

Activator and Anchor

- *For use with tape, spring and bungy gates.*
- *3 positions for flexibility.*

Available in selected markets.

807883 **PK 5**

Bungy Cord

- *Heavy duty electrified shock cord with supreme elasticity*
- *4 stainless steel wires cross over 10 x per cm for maximum conductivity*
- *Suitable for all livestock*
- *UV stabilised for long life.*

805194 **50 m**
819027 **200 m**

Poli Bungy Cord Hook

- *Galvanised hook for bungy gate anchor.*

814633 **PK 10**

OTHER GATE PRODUCTS

High Visibility Flag

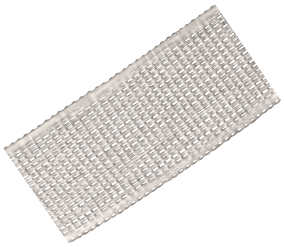
- *For use on any gateway including tape, spring or bungy.*

813374 **PK 10**

Tape Gate Buckle

- *For use with Premium Gate Tape.*

SA062 **PK 10**



Premium Gate Tape

- *40 mm wide tape*
- *10 strands of highly durable stainless steel wire for greater conductivity*
- *Highly visible.*

Available in selected markets.

SP023 **50 m**

General Accessories

All Speedrite general accessories come with a 1 year warranty.

CUT-OUT SWITCHES

Extreme Cut-Out Switch

- *Long life stainless steel contacts*
- *Easily sighted on/off position*
- *UV stabilized for long life.*

Available in selected markets.

807882 **PK 10**

Standard Cut-Out Switch

- *Use to isolate sections of electric fence with minimal disruption to your farm*
- *2 stainless steel contacts for positive connection*
- *Highly visible on/off position*
- *Fits securely onto post*
- *UV stabilised for long life.*

SA064 **PK 10**

Hotline Cut-Out Switch

- *Economy cut out switch*
- *Tubular design suits installation on pipe post or gate.*

Available in selected markets.

AA220 **PK 5**

LIGHTNING PROTECTION

Lightning Diverter Kit

- *Kit contains components needed to block & divert most voltage spikes from lightning strikes.*

Includes spring choke, insulator, joint clamps and lightning arrestor.

SA002 **PK 1**

JOINT CLAMPS

Joint Clamp

- *Solid zinc for superior corrosion resistance*
- *Ideal for coastal or other harsh environments*
- *For wires up to 2.5 mm diameter.*

SA049 **PK 25**

Heavy Duty Joint Clamp

- *Galvanised construction for superior rust resistance*
- *Claw design to allow multiple connecting wires.*

SA052 **PK 20**

FLOOD PROTECTION

Flood Gate Controller

- *Limits energy loss from heavy growth or flooding*
- *Fully sealed from insects and the environment*
- *Ideal for use near creeks, river beds & areas prone to flooding.*

SA038 **EA**

EARTHING

Earth Kit

- *Ensures effective connection between energizer and earth, maximising the performance of your electric fence.*

Includes: 3 x 2 m galvanised earth rods, 3 x galvanised earth clamps.

SA069 **PK 3**

Earth Rod

- *Solid construction*
- *Galvanised & stainless steel options available.*

Available in selected markets.

819188 ***2.0 m Galvanised EA***
AA770 ***1.2 m Stainless steel EA***

Earth Clamp

- *Solid galvanised construction*

SA068S **PK 3**

SIGNS

Galvanised 1.0 m T-Top

- *1.0 m earth rod*
- *T bracket enables quick and easy attaching of earth lead*
- *Galvanised steel construction for corrosion resistance.*

Available in selected markets.

808020 **EA**

Bentonite Earth Kit

- *Designed to improve soil conductivity around earth rod in dry or non-conductive soils*
- *Stainless steel construction for enhanced corrosion resistance.*

Includes: 1.2 m stainless steel rod, stainless steel earth clamp & Bentonite Salt Solution.

In non-conductive soils, one Bentonite Earth Kit is equivalent to up to three standard earth rods.

Available in selected markets.

SA066 **PK 1**

Warning Sign

- *Clear warning for safety*
- *Signs may be required by law, refer to your local bylaws for more information.*

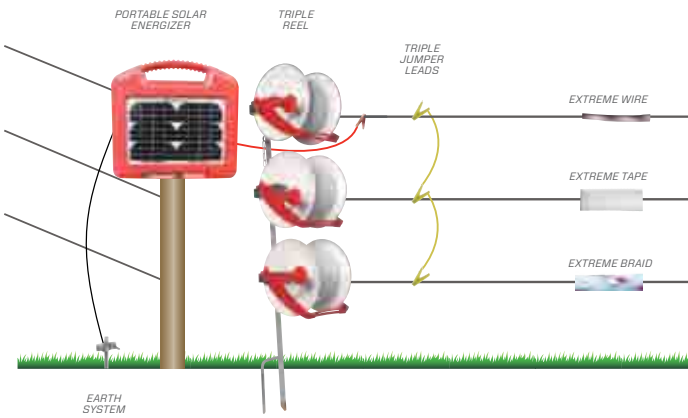
SA046 **PK 10**

TEMPORARY ELECTRIC FENC

Helps increase production through providing a quick, easy and inexpensive way to subdivide paddocks. This portable fencing solution gives you the versatility to strip graze, make temporary paddocks or pens and protect trees and gardens from damage by stock.

Temporary Electric Fence System

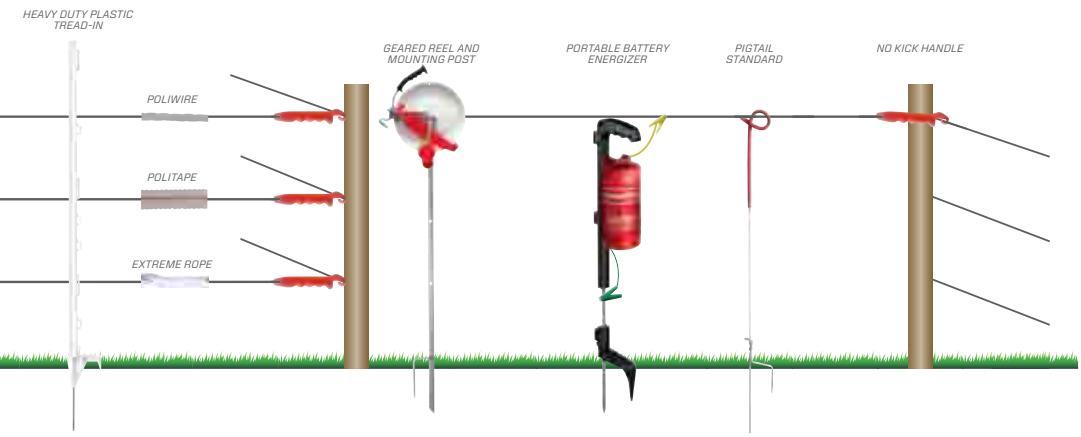
Speedrite has a range of equine products for use in temporary electric fencing. Look for the horse logo to identify the Speedrite equine range.



CING

*Diagram is an example only. For more details on temporary fencing design visit **www.speedrite.com/resources**. Select **Brochures** then **Speedrite Fencing Manual**.*

Strip grazing for controlled rotational grazing is an excellent method to improve pasture utilisation. For best early re-growth of pasture, back-fencing of areas already grazed is recommended. Generally, temporary fences are moved daily. The distance moved depends on the number of animals being grazed and the quality and quantity of pasture available. These products are recommended to ensure top performance of your temporary electric fence system.



TEMPORARY ELECTRIC FENCE SYSTEM CHECKLIST

TICK HERE	DO YOU HAVE:
☐	*Battery or solar powered energizer*
☐	*Reel(s)*
☐	*Tape, wire or braid*
☐	*Plastic tread-in or pigtail standards*
☐	*No kick handle*
☐	*Jumper leads*
☐	*Mounting post(s)*

Tape, Wire, Braid and Rope Products

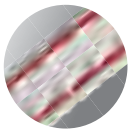
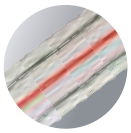
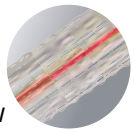
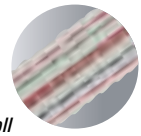
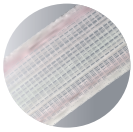
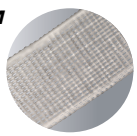
Select between the Extreme, Premium and Poli range depending on your temporary fence needs. All Speedrite poli products are UV stabilised for long life and come with a 1 year warranty.

*The Speedrite EXTREME range provides the ultimate in conductivity and strength for demanding professional livestock control applications. Up to 6 tinned copper strands for extreme shock power.**

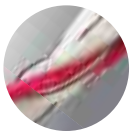
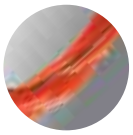
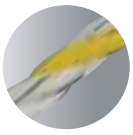
The Speedrite PREMIUM range provides greater conductivity and strength for more demanding professional livestock control applications. Up to 8 stainless steel strands for greater shock power.

The Speedrite POLI range provides effective conductivity and strength for professional livestock control applications. 6 stainless steel strands for shock power.

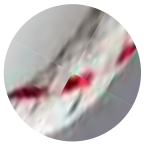
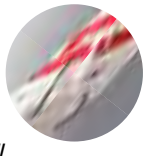
** Some Extreme products in the equine range also contain stainless steel strands.*

TAPE		FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME TAPE 12 MM SP050 White 200 m Roll SP052 White 400 m Roll		- 6 tinned copper strands - 106 x more conductive than standard Politape - Increased shocking and stopping power, ideal for long lengths of temporary & semi-permanent fence - Heavy duty tape, tightly woven for superior strength - 12 mm width with white & red weave for ultimate visibility - UV stabilised for long life.	65	8,000	7,900	7,500	7,100
PREMIUM SUPER 8 TAPE 12 MM SP060 White 200 m Roll SP062 White 400 m Roll		- 8 interwoven stainless steel strands - 1.3 x more conductive than standard Politape - Ideal for temporary fencing and strip grazing - Tightly woven for superior strength - 12 mm width with white & orange weave for high visibility - UV stabilised for long life.	5,200	8,000	3,800	1,200	700
POLITAPE 12 MM SP106 White 100 m Roll SP016 White 200 m Roll SP018 Orange 200 m Roll SP014 White 400 m Roll		- 6 stainless steel strands - Ideal for temporary fencing and strip grazing - Tightly woven for superior strength - 12 mm width with orange & white weave for high visibility - UV stabilised for long life.	6,900	8,000	3,200	950	500
ENDUROTAPE 807955 White 200 m Roll 807954 White 400 m Roll		- 8 stainless steel strands - 3.5 x more conductive than standard Politape - Ideal for temporary fencing & strip grazing - Tightly woven for superior strength - 12 mm width with white & red weave for high visibility - UV stabilised for long life.	2,000	8,000	5,700	2,700	1,600
EXTREME TAPE 40 MM 814588 White 200 m Roll		- 5 tinned copper strands - 5 stainless steel strands - 99 x more conductive than standard Politape - Ideal for long distance, permanent and semi-permanent fencing - 40 mm width with white and orange weave for ultimate visibility - UV stabilised for long life.	70	8,000	7,900	7,500	7,000
PREMIUM TAPE 40 MM SP023 White 50 m Roll SP021 White 100 m roll SP022 White 200 m Roll		- 10 stainless steel strands - 1.7 x more conductive than standard Politape - Ideal for permanent & semi-permanent fencing or high traffic areas such as gateways - 40 mm width for high visibility - UV stabilised for long life.	4,000	8,000	4,400	1,600	900

WIRE

		FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME WIRE SP040 **White 200 m Roll** SP041 **White 400 m Roll**		- 6 tinned copper strands - 105 x more conductive than standard Poliwire - Increased shocking and stopping power, ideal for long lengths of temporary and semi-permanent fence - UV stabilised for long life - White with red weave for ultimate visibility.	65	8,000	7,900	7,500	7,100
PREMIUM WIRE SP211 **White 400 m Roll**		- 9 stainless steel strands - 1.5 x more conductive than standard Poliwire - Ideal for temporary fencing and strip grazing - UV stabilised for long life.	4,500	8,000	4,200	1,500	800
POLIWIRE SP013 **White 200 m Roll** SP012 **Orange 200 m Roll** SP010 **Orange 500 m Roll** SP011 **White 500 m Roll**		- 6 stainless steel strands - An economical choice for temporary fencing and strip grazing - UV stabilised for long life - Available in white or orange.	6,800	8,000	3,400	1,000	550
ENDUROWIRE 807956 **200 m Roll** 807957 **400 m + 100 m Roll**		- 6 stainless steel strands - 2.3 x more conductive standard Poliwire and strip grazing - UV stabilised for long life. Available in selected markets.	3,000	8,000	5,000	2,000	1,200

BRAID

		FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME BRAID 7 MM 814540 White 200 m Roll		- 4 tinned copper strands for ultimate conductivity - 4 stainless steel strands for ultimate strength - 68 x more conductive than standard Poliwire - Increased shocking & stopping power, ideal for long lengths of temporary and semi-permanent fence - White with red weave for ultimate visibility - UV stabilised for long life.	100	8,000	7,800	7,300	6,700
EXTREME BRAID 3 MM SP036 **200 m Roll** SP037 **400 m + 100 m Roll**		- 4 tinned copper strands - 72 x more conductive than standard Poliwire - Increased shocking and stopping power, ideal for long lengths of temporary & semi-permanent fence - White with red weave for ultimate visibility - UV stabilised for long life.	95	8,000	7,900	7,300	6,700

ROPE

		FEATURES	RESISTANCE (OHMS / KM)	VOLTAGE AT START OF FENCE (V)	VOLTAGE AT 100 M (V)	VOLTAGE AT 500 M (V)	VOLTAGE AT 1 KM (V)
EXTREME ROPE 6 MM 814539 **White 200 m Roll**		- 3 tinned copper strands - 3 stainless steel strands - 52 x more conductive than standard Poliwire - Ideal for temporary fencing and strip grazing - 6 mm diameter for greater visibility and strength - UV stabilised for long life.	130	8,000	7,800	7,100	6,300

Reels

Speedrite reels are unrivalled for their reliability and performance. They all feature a rugged, sturdy design. Speedrite geared reels are made of high impact polymers and galvanised steel frames and come with a 5 year bobbin UV warranty.

Geared Mega Reel

- *Holds 1,000 m Poliwire or 400 m Politape*
- *3:1 gear ratio with a solid steel crank*
- *Frame insulated from spool*
- *Use with carry handle or on mounting post*
- *UV stabilised for long life*
- *Galvanised steel frame*
- *Rugged steel locking system.*

Includes: No Kick Handle

SR021 **EA**

Geared Reel

- *Holds 500 m Poliwire or 200 m Politape*
- *3:1 gear ratio with a solid steel crank*
- *Frame insulated from spool*
- *Use with carry handle or on mounting post*
- *UV stabilised for long life*
- *Galvanised steel frame*
- *Rugged steel locking system.*

Includes: No Kick Handle

SR020 **Geared Reel EA**
SR0201 **Geared Reel Prewound Premium Tape 12 mm x 200 m White EA**
SR0202 **Geared Reel Prewound Poliwire 500 m White EA**
SR0205 **Geared Reel Prewound Extreme Tape 12 mm x 200 m EA**
SR0206 **Geared Reel Prewound Extreme Wire 400 m EA**

Jumbo Econo Reel

- *Holds 1,000 m Poliwire or 400 m Politape*
- *1:1 gear ratio*
- *Frame insulated from spool*
- *Use with carry handle or on mounting post*
- *UV stabilised for long life*
- *Galvanised steel frame*
- *Rugged steel locking system.*

SR001 **EA**

Econo Reel

- *Holds 500 m Poliwire or 200 m Politape*
- *1:1 gear ratio*
- *Frame insulated from spool*
- *Use with carry handle or on mounting post*
- *UV stabilised for long life*
- *Galvanised steel frame*
- *Rugged steel locking system*
- *Innovative notch frame design for easy & secure fence attachment.*

SR015 **EA**

Mini Reel

- *Holds 200 m Poliwire or 100 m Politape*
- *1:1 gear ratio*
- *Frame insulated from spool*
- *Use with carry handle or on mounting post*
- *UV stabilised for long life*
- *Galvanised steel frame*
- *Rugged steel locking system.*

SR005 **EA**

Pre-wound Triple Geared Reel

- *Features 3 Geared Reels pre-wound with 500 m of white Poliwire.*

Includes mounting post & three No Kick Handles.

803349 **White 500 m**

Pre-wound Triple Reel

- *Features 3 Value Reels pre-wound with 500 m of orange Poliwire.*

Includes mounting post.

SR0092 **Orange 500 m**

Galvanised Reel Mounting Posts

- *Sturdy galvanised steel construction.*

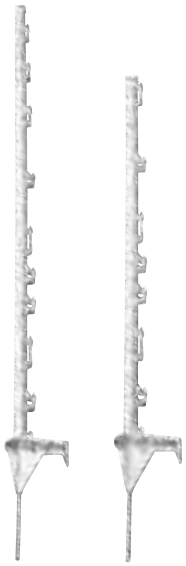
Includes anchor chain.

814844 **3 Hole EA**
814624 **4 Hole EA**

Temporary Fence Posts

All Speedrite temporary fence posts come with a 1 year warranty.

TREAD-INS



Heavy Duty Tread-In

- *Designed for maximum strength & versatility*
- *Suitable for Poliwire, Politape, 40 mm tape or rope & braid up to 8 mm*
- *9 positions available in 840 mm; 11 positions available in 1,280 mm*
- *UV stabilised for long life*
- *Rugged "H" profile post*
- *Corrosion resistant metal spike*
- *Extra long length suitable for equine.*

SA024 **White 840 mm CT 50**
804338 **White 1,280 mm CT 50**

Plastic Tread-In

- *Lightweight design*
- *Eight positions for Poliwire, Politape, tape, rope & braid up to 8 mm*
- *UV stabilised for long life*
- *Corrosion resistant metal spike.*

Available in selected markets.

SA029 **Red CT 50**

Plastic Tread-In

- *Strong lightweight construction*
- *Tread-in directly over steel spike for ease of use*
- *Six positions for Poliwire, Politape, 3 mm braid and 40 mm tape*
- *UV stabilised for long life*
- *Corrosion resistant metal spike.*

808017 **White CT 50**

PIGTAIL

Pigtails

- *Galvanised spring steel construction*
- *UV stabilised for long life*
- *Corrosion resistant metal spike*
- *Unique rugged crimped foot design for durability*
- *790 mm fence height (960 mm total height).*
- *Also available in heavy duty 900 mm with white insulator (1,110 mm total height)*

Available in selected markets.

SA023	***790 mm PK 10***
807869	***900 mm Heavy duty PK 10***

TEMPORARY FENCE POSTS

Steel Foot Nevabreak

- *Galvanised spring steel construction*
- *Four positions for Poliwire, Politape & 3 mm braid (1,100 mm); Five positions for Poliwire, Politape, 3 mm braid & 40 mm wide tape (1,500 mm)*
- *UV stabilised for long life*
- *Corrosion resistant metal spike*
- *Unique rugged crimped foot design for durability*
- *Exclusive kink design*
- *Extra long length suitable for equine*

Available in selected markets.

807871	***1,100 mm PK 10***
807872	***1,500 mm PK 10***

Agripik Y-Post

- *Made from recycled plastic*
- *15% the weight of standard steel posts*
- *Ideal for temporary & permanent fencing*

Available in selected markets.

EF500PL00	***Black 1,680 mm PK 10***
EF503PL00	***Orange 1,680 mm PK 10***
EF501PL00	***White 1,680 mm PK 10***

Heavy duty Steel Tread-In

- *10 mm Painted steel construction*
- *Welded foot design*
- *790 mm fence height (960 mm total height).*

SA020	***PK 10***

General Accessories

All Speedrite general accessories come with a 1 year warranty.

LEADS

Jumper Leads

- *Recommended for ensuring good connections in temporary fencing*
- *Joint clamps are recommended for permanent fencing.*

SA004	***Single Jumper Lead PK 1***
SA005	***Triple Jumper Lead PK 1***

HANDLES

No Kick Handle

- *Used when an insulated connection is required*
- *Strong UV resistant design*
- *For use in temporary fence application*
- *Slim design for ease of use.*

SA013	***PK 10***

HARDWARE

Tape to Energizer Connector

- *Use to connect tape up to 40 mm wide to energizer.*

Available in selected markets.

814700	***EA***

Rope / Braid to Energizer Connector

- *Use to connect rope or braid strands to energizer.*

Available in selected markets.

814701	***EA***

Rope / Braid Clamp 7 mm

- *Stainless steel clamp, ideal for joining rope or braid together.*

Available in selected markets.

814597	***PK 3***

Wide Tape Joiner 40 mm

- *Use to join up to 40 mm wide tape*
- *Made from stainless steel.*

Available in selected markets.

814600	***PK 5***

EARTH SYSTEMS

Your earth system is the most important component of your electric fence system. An effective earth system will optimise the performance of your fence.

Setting up your Earth System

INSTALLING YOUR ENERGIZER

Before installing make sure you have read all the instructions provided with your energizer.

Indoor installation

Mains, Unigizer™ or battery powered energizer

- Mount out of reach of children and animals

- Mount a mains powered energizer near a power point.

Outdoor installation

Unigizer or battery powered energizer

- Mount out of reach of children and animals

- If necessary, build a protective box or fence around the energizer and battery

- Where possible, connect the energizer to the middle of the fence.

Solar Installation

Solar powered energizers

- Mount out of reach of children and animals

- If necessary, build a protective fence around the solar installation

- Where possible, position the energizer and solar panel(s) in the middle of the fence

- Adjust the solar panel(s) to face north in the southern hemisphere and south in the northern hemisphere

- Tilt the solar panel(s) to face the midday sun.

Refer to your product user manual for more information about energizer installations. For further assistance, contact your local Tru-Test Group Area Sales Manager or Speedrite retailer/distributor for advice. You'll find their details online at ***www.speedrite.com.*** *Alternatively, refer to the back cover for details of your local Tru-Test Group office.*

EARTHING YOUR ENERGIZER

Understanding earthing

What is an earth system?

The earth system consists of a number of earth rods that provide an effective (low resistance) path for the current to return to the energizer's earth terminal. Larger energizers with large fence lines require more earthing rods.

How does earthing work?

For an electric fence to give an electric shock the current produced by an energizer must complete a full circuit. The current leaves the energizer and moves along the fence wires through the animal, into the soil and back to the energizer via the earth system. If the earth system is ineffective the animal will receive an inadequate shock.

What factors affect your earth system?

Dry, sandy or non-conductive soil (e.g. volcanic soil) provides an ineffective earthing system. If you have this type of soil, it's a good idea to 1) use additional earth rods or 2) choose a better location for the earth system (such as damp soil) or 3) consider an alternative method of earthing such as the Fence Wire Earth Return System.

Contact your local Tru-Test Group Area Sales Manager or Speedrite retailer/distributor for advice. You'll find their details online at ***www.speedrite.com****. Alternatively, refer to the back cover for details of your local Tru-Test Group office.*

Setting up your Earth System

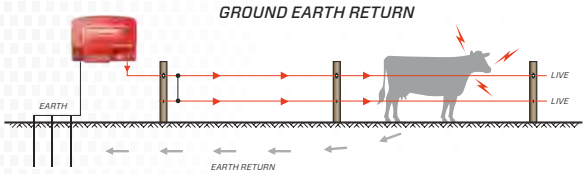
STEP 1

Choose the right system for you:

Option 1 – Ground Earth Return

Recommended where soil is conductive. This system is suitable for most moist soils.

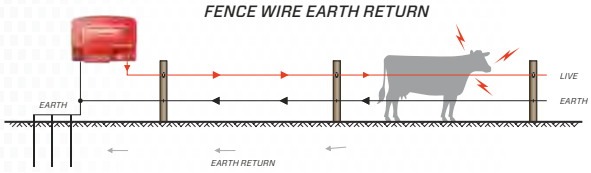
Current flows through the animal and the ground back to the earth rods.



Option 2 – Fence Wire Earth Return

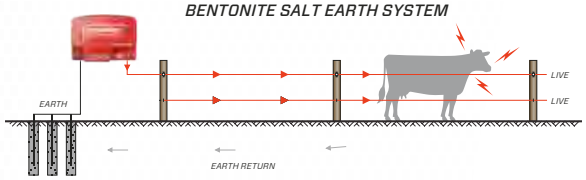
Recommended where soil is not conductive. If the soil is dry, sandy or volcanic it is usually not conductive.

The fence is constructed using both live and earth wires. If the animal touches the live wire the current flows through the animal and the ground back to the earth rods. If the animal touches the live wire and the earth wire the current flows through the ground and fence earth wire to the earth rods.



Option 3 – Bentonite Salt Earth (Australia Only)

Recommended for extremely dry soil conditions. A mixture of bentonite and salt surrounds each earth rod. The salt attracts moisture and acts as a conductor while the bentonite retains moisture over long periods of time. Stainless steel earth rods are required in order to prevent salt corrosion.



STEP 2

Select the site for your earth system

A suitable place for an earth system is:

- *At least 10 m away from other earth systems, e.g. house mains, underground power or phone lines*
- *Away from stock or other traffic that could interfere with the installation*
- *Easily accessible for maintenance*
- *Where there is damp soil all year round, e.g. shaded or swampy areas.*

TIPS

1. *In some situations it is not possible to locate the earth system close to the energizer. As an alternative try using the existing fence line to connect to a remote earth system.*
2. *It may be necessary to water the earth system in dry weather to improve soil conductivity.*

STEP 3

Insert the earth rods

The number of earth rods required depends on the type of energizer you're using to power the fence and the soil conductivity. It is recommended that you consult with your local retailer/distributor for the correct number of earth rods to suit your specific location.

1. *Space the required number of 2 m earth rods at least 3 m apart. If using a bentonite salt earth system, space the earth rods at least 10 m apart.*
2. *Ensure that the earth rods protrude out of the soil by 100 mm so they can be easily connected.*
3. *Connect the earth rods in a series using joint clamps and insulated cable* in one continuous length without joins.*

**Note you will need to strip small sections of the insulation away from the cable to connect the joint clamp/earth rod.*

STEP 4

Testing your earth system

Test your earth system to ensure it's working properly.

To do this:

1. *Turn off the energizer.*
2. *Short circuit the fence to ground at least 100 m away from the energizer. This can be done by laying steel rods or pipe against the fence. In dry or sandy soils drive the rods into the soil up to 300 mm.*
3. *Turn on the energizer.*
4. *Use a digital voltmeter (see pg 27) to measure the fence voltage. It should read less than 2 kV. If not, repeat steps 1-3 using more steel rods or pipe.*
5. *Attach the voltmeter clip to the last earth rod of the earthing system.*
6. *Insert the voltmeter probe into the soil at the full length of the leads.*
7. *The voltmeter reading should be no more than 0.3 kV. If the reading is higher than this, the earth system is inadequate. Therefore you will need to add more earth rods or find a better location for your earth system. It is recommended you review the checklist opposite.*

EARTH SYSTEM CHECKLIST

	TICK HERE
All wires are joined securely	☐
Connections to earth rods are secure	☐
Earth rods are at least 3 m apart	☐
Earth rods are at least 2 m long	☐
There are a sufficient number of earth rods	☐
All parts of the earth system are made of the same metal	☐
The earth rods are driven deeply into the soil (100 mm exposed)	☐
Earth rods are a minimum of 10 m away from buildings or other electrified earth systems, e.g. house mains, underground power or phone lines.	☐

Product Notes

Product Notes

LOCAL STORE/DEALER

Staple business card here

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www.speedrite.com

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